

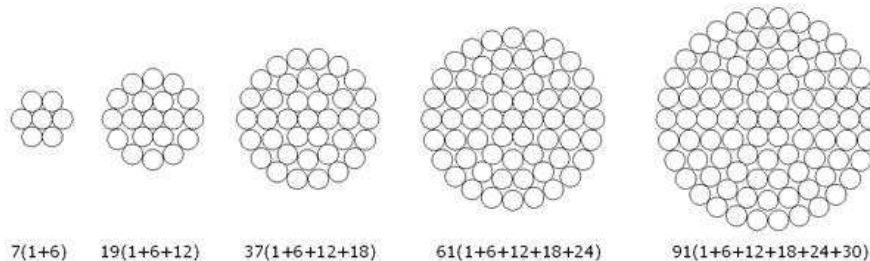
## SPECIFICATIONS AND STANDARDS

AAAC bare conductors meets or exceeds the following **BS-3242**



## APPLICATIONS

All-Aluminum Alloy Conductors (AAAC) is recommended for use as bare overhead conductor for primary and secondary distribution and in cases where high strength-to-weight ratio is required. It has a good corrosion resistance due to being composed out of aluminum alloy wires only, minimum conductivity of 52% IACS, high breaking strength per weight and normal creep values. AAAC has the highest strength per weight among all bare overhead conductors.



This catalogue shows the most common sizes of conductor but other sizes, to any recognized standards or customer specification can also be supplied. AAAC insulated with XLPE or PVC can also be supplied as per customer's requirements.

## AAAC conductors manufactured to BS-3242

Code name	Nominal area	Stranding	Sectional	Diameter of	Linear mass	Rated strength	Max. DC resistanc
	mm <sup>2</sup>	No./mm	mm <sup>2</sup>	mm	kg/km	kgf	Ω/km
Box	15	7/1.85	18.82	5.55	51	537	1.7495
Acacia	20	7/2.08	23.79	6.24	65	680	1.3840
Almond	25	7/2.34	30.10	7.02	82	861	1.0934
Cedar	30	7/2.54	35.47	7.62	97	1014	0.9281
-	35	7/2.77	42.18	8.31	115	1205	0.7804
Fir	40	7/2.95	47.87	8.85	131	1367	0.6880
Hazel	50	7/3.30	59.87	9.9	164	1711	0.5498
Pine	60	7/3.61	71.65	10.83	196	2048	0.4594
-	70	7/3.91	84.05	11.73	230	2402	0.3917
Willow	75	7/4.04	89.73	12.12	245	2565	0.3669
-	80	7/4.19	96.52	12.57	264	2758	0.3441
-	90	7/4.44	108.00	13.32	298	3112	0.3023
Oak	100	7/4.65	118.90	13.95	325	3398	0.2769
-	100	19/2.82	118.70	14.1	326	3393	0.2787
Mulberry	125	19/3.18	150.90	15.9	415	4312	0.2192
Ash	150	19/3.48	180.70	17.4	497	5164	0.1831
Elm	175	19/3.76	211.00	18.8	580	6030	0.1568
Poplar	200	37/2.87	239.40	20.09	659	8841	0.1385
-	225	37/3.05	270.30	21.35	744	7724	0.1227
Sycamore	250	37/3.22	303.20	22.54	835	8664	0.1093
Upas	300	37/3.53	362.10	24.71	997	10350	0.09156
Walnut	350	37/3.81	421.80	26.67	1162	12053	0.07860
Yew	400	37/4.06	479.00	28.42	1319	13685	0.06921
Totara	425	37/4.14	498.10	28.98	1372	14233	0.06656
Rubus	500	61/3.50	586.90	31.5	1620	16771	0.05662
Araucaria	700	61/4.14	821.10	37.26	2266	23450	0.04047